INCH-POUND

MIL-PRF-8805/92C 31 October 2001 SUPERSEDING MIL-PRF-8805/92C 28 June 1988

PERFORMANCE SPECIFICATION SHEET

SWITCH ASSEMBLIES, SENSITIVE, LEVER LOCK, 5 AMPERES, UNSEALED

This specification forms a part of MIL-PRF-8805, dated 23 January 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-8805.

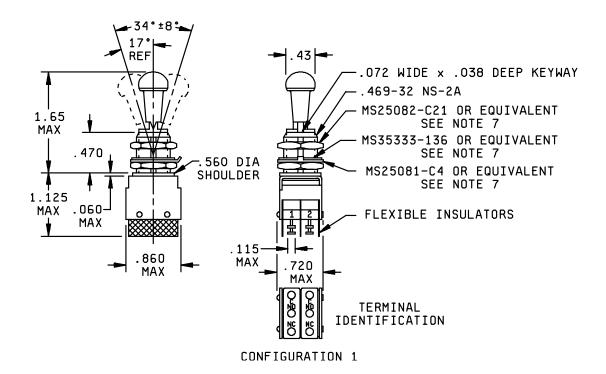
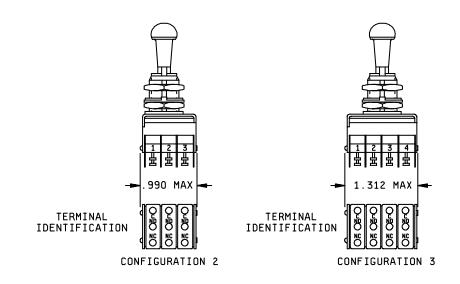
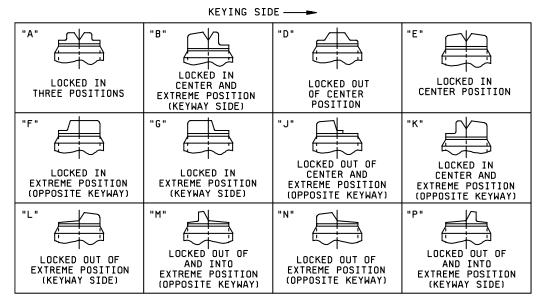


FIGURE 1. Configurations and dimensions.

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<u>DISTRIBUTION STATEMENT A.</u> Approved for public release; distribution is unlimited.





LOCKING COMBINATION

FIGURE 1. Configurations and dimensions - continued.

Inches	mm	Inches	mm	Inches	mm
.038	.97	.43	10.92	.860	21.84
.060	1.52	.469	11.91	.990	25.15
.062	1.57	.470	11.94	1.125	28.58
.072	1.83	.560	14.22	1.312	33.32
.115	2.92	.720	18.29	1.65	41.91

NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based on 1 inch = 25.4 mm.
- 3. Unless otherwise specified, tolerances are ±.015 (.38 mm) for three place decimals and ±.02 (51 mm) for two place decimals.
- 4. Design configuration optional provided specified dimensions are not exceeded.
- 5. Base switch number shall be permanently marked as shown.
- 6. Double turret type terminals shall accept two AN-20 or equivalent wires.
- 7. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for hexagon nut, lock washer and key washer material. Dimensions shall be in accordance with the referenced hardware specifications.

FIGURE 1. Configurations and dimensions - continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Enclosure design: 1 (Unsealed).

Temperature characteristic: 1 (-55°C to +85°C).

Shock type: M (100 g, test condition I, method 213 of MIL-STD-202).

Vibration grade: 1 (10 to 500 Hz).

Weight: See table III.

Operating characteristics:

Coincidence of operating and releasing points: All poles shall transfer within 10° of lever travel.

Locking arrangement: Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released.

Locking mechanism release: The force required to release the locking mechanism shall be 3 to 5 pounds.

Material:

Bracket and lever: Corrosion resistant steel.

Switch assembly: Basic switch shall be MS25085-2 (MIL-PRF-8805/2) switch listed on QPL-8805.

Contact resistance: Not applicable.

Dielectric withstanding voltage:

Sea level: 1,000 Vrms.

Altitude: 50,000 feet, 400 Vrms

In qualification inspection table after electrical endurance the dielectric withstanding voltage points of application between all unconnected terminals of the same pole is not applicable.

Mechanical endurance: 100,000 cycles.

Lever lock switches shall be tested for 100,000 cycles (at room ambient conditions) with the lever being pulled to its fully extended position and then permitted to return to its fully retracted position by spring action without operation of the switches. The cycling rate for this test shall be 60 cycles per minute maximum. In addition to this test, the lever lock switches shall receive a normal mechanical endurance test of 100,000 cycles of operation with the lever lock mechanism held in its fully extended position continuously throughout the test.

Electrical endurance: 25,000 cycles.

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Electrical ratings: See table I.

Qualification inspection (group submission): See table II.

Part or Identifying Number (PIN): See table III

Circuit configuration: See table IV.

TABLE I. Electrical ratings.

Load	Se	50,000 feet	
	28 V dc	115 V ac, 60 Hz	28 V dc
	amperes	amperes	amperes
Resistive	5	5	5
Inductive	3	5	2.5
Lamp	2.4	1.5	2.4

TABLE II. Qualification inspection group submission.

Examination or test Basic switch		Additional sample units	Extent of
	assembly	for combined submission	approval
Group I. Visual and mechanical examination Operating characteristics	M8805/92-002 (12 sample units)	(2 sample units each) M8805/92-005 M8805/92-016 M8805/92-019 (tested to group I only)	
Group II. Strength of actuating means (2 sample units only) Strength of mounting bushing (2 sample units only) Thermal shock Vibration Shock Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)		
Group III. Salt spray (corrosion) Visual and mechanical examination	(2 sample units from group I)		All
Group IV. Low temperature operation (2 sample units) Mechanical endurance at room ambient conditions (2 units) Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)		
Group V. Electrical endurance Inductive load, dc	(2 sample units from group I)		

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TABLE III. PIN's and characteristics.

PIN	Switch configuration number	Locking combination	Table IV circuit	Switch action			Weight
M8805/92-	(See figure I)	Combination	configuration	Opposite keyway	Center	Keyway	Weight
001	1	D	1				lb. max .075
002 003 004	3	D F G	4	Main	None	Main	.100 .100 .100
005 006		E		Mom	Main	Mom	.075 .075
007 008 009 010 011 012 013 014 015	1	A D E F G J K L M N	2	Main	Main	Main	.075 .075 .075 .075 .075 .075 .075 .075
016 017 018		B E P		Mom	Main	Main	.075 .075 .075
019	2	А	3	Main	Main	Main	.090

TABLE IV. Circuit configuration.

Circuit	Switch pole	Circuit closed with the toggle lever in			
configuration	number	Opposite keyway side	Center	Keyway side	
4	4	0.110	Mana	0.110	
1	1	C-NC C-NC	None	C-NO C-NO	
	2				
	1	C-NO	C-NC	C-NC	
2	2	C-NC	C-NC	C-NO	
	1	C-NO	C-NC	C-NC	
3	2	C-NC	C-NC	C-NO	
	3	C-NO	C-NC	C-NC	
	1	C-NC		C-NO	
4	2	C-NC		C-NO	
	3	C-NC	None	C-NO	
	4	C-NC		C-NO	

Custodians:

Army - CR

Navy - EC Air Force - 11

DLA - CC

Preparing activity: DLA - CC

(Project 5930-1126-23)

Review activities:

Army – AR, AV, MI Navy – AS, MC, OS Air Force – 19